

## GILA RIVER BASIN

09482450 WEST BRANCH SANTA CRUZ RIVER AT TUCSON, AZ

LOCATION.--Lat 32°08'00", long 111°00'30", NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec.16, T.15 S., R.13 E., Pima County, Hydrologic Unit 15050301, at Valencia Road, 0.4 mi west of Tucson city limits.

DRAINAGE AREA.--23.6 mi<sup>2</sup>, contributing drainage area not determined.

### Annual peak discharges

| Water year | Date     | Annual peak discharge (ft <sup>3</sup> /s) | Discharge codes | Water year | Date     | Annual peak discharge (ft <sup>3</sup> /s) | Discharge codes |
|------------|----------|--|-----------------|------------|----------|--|-----------------|
| 1966       | 08-19-66 | 75   | ES              | 1974       | 06-25-74 | 110  |                 |
| 1967       | 07-17-67 | 130  | ES              | 1975       | 09-09-75 | 190  |                 |
| 1968       | 08-10-68 | 480  |                 | 1976       | 09-25-76 | 910  |                 |
| 1969       | 08-08-69 | 318  |                 | 1977       | 09-09-77 | 350  |                 |
| 1970       | 07-19-70 | 75   | ES              | 1978       | 10-06-77 | 910  |                 |
| 1971       | 08-17-71 | 540  |                 | 1979       | 12-18-78 | 50   |                 |
| 1972       | 07-16-72 | 190  |                 | 1980       | 09-25-80 | 150  |                 |
| 1973       | 08-23-73 | 80   |                 | 1981       | 07-29-81 | 760  |                 |

Magnitude and probability of instantaneous peak flow based on period of record

| Discharge, in ft <sup>3</sup> /s, for indicated recurrence interval in years, and exceedance probability, in percent |          |           |          |          |           |
|--|----------|-----------|----------|----------|-----------|
| 2<br>50%   | 5<br>20% | 10<br>10% | 25<br>4% | 50<br>2% | 100<br>1% |
| ---  | ---      | ---       | ---      | ---      | ---       |
| Weighted skew  | (logs) = | ---       |          |          |           |
| Mean   | (logs) = | ---       |          |          |           |
| Standard dev.  | (logs) = | ---       |          |          |           |

### Basin characteristics

| Main channel slope (ft/mi) | Stream length (mi) | Mean basin elevation (ft) | Forested area (percent) | Soil index | Mean annual precipitation (in) | Rainfall intensity, 24-hour |              |
|----------------------------|--------------------|---------------------------|-------------------------|------------|--------------------------------|-----------------------------|--------------|
|                            |                    |                           |                         |            |                                | 2-year (in)                 | 50-year (in) |
| 80.9                       | 15.3               | 2,800                     | 0.3                     | 3.0        | 11.2                           | 2.1                         | 4.4          |

